



PHOTOGRAPH LOG

Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
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Photo No. 1	Date: 08/04/2015	 08/04/2015 10:28
Direction Photo Taken: North	Description: Beginning investigation into collapsed adit.	
Photo No. 2	Date: 08/04/2015	 08/04/2015 11:33
Direction Photo Taken: North	Description: Excavated next to DRMS-installed culvert, water muddy from soil disturbance.	



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 3	Date: 08/04/2015 Direction Photo Taken: Down Description: Seepage from soil next to piping.	 08/04/2015 11:36
Photo No. 4	Date: 08/04/2015 Direction Photo Taken: Down Description: Seepage next to the pipe is clear until entering disturbed soil.	 08/04/2015 11:36



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 5 Direction Photo Taken: North Description: DRMS looking at adit excavation progress.		
Photo No. 6 Direction Photo Taken: West Description: Water minimally murky from disturbed soil and water entering the North Fork from site.		



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 7	Date: 08/04/2015		08/04/2015 11:51
Direction Photo Taken:	South/Down		
Description:	Hay bales installed as filter for sediment in North Fork.		
Photo No. 8	Date: 08/04/2015		08/04/2015 11:55
Direction Photo Taken:	Northwest		
Description:	Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support.		



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 9	Date: 08/04/2015 Direction Photo Taken: Northeast	
Description: First signs of adit, support pillar with lagging.		
Photo No. 10	Date: 08/04/2015 Direction Photo Taken: East	
Description: Water of the North Fork just upstream of Cement Creek.		



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 11 Direction Photo Taken: East Description: Water of the North Fork just upstream of Cement Creek.	Date: 08/04/2015	
Photo No. 12 Direction Photo Taken: North Description: Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.	Date: 08/04/2015	



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 13	Date: 08/05/2015	Direction Photo Taken: North	 08/05/2015 09:15
Description: Adit conditions the morning of 8/5.			
Photo No. 14	Date: 08/05/2015	Direction Photo Taken: Northeast	 08/05/2015 09:26
Description: Excavating material above the collapsed adit.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 15	Date: 08/05/2015		
Direction Photo Taken:	North		
Description:	Bedrock found above the anticipated adit.		
Photo No. 16	Date: 08/05/2015		
Direction Photo Taken:	North		
Description:	Cleaning out excavated material, small leak.		



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 17	Date: 08/05/2015	Direction Photo Taken: North	
Description: Small leak close up.			
Photo No. 18	Date: 08/05/2015	Direction Photo Taken: North	
Description: Hole starting to give way to flow.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 19	Date: 08/05/2015	Direction Photo Taken: Northeast	
Description:		Adit flow increasing.	
Photo No. 20	Date: 08/05/2015	Direction Photo Taken: Northeast	
Description:		Water flooding out at increased rate.	



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 21	Date: 08/05/2015	Direction Photo Taken: West	
Description: Water flowing along access road and across waste dump.			
Photo No. 22	Date: 08/05/2015	Direction Photo Taken: Southeast	
Description: Water flowing over the edge of the waste dump and collapsing the edge.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 23	Date: 08/05/2015	Direction Photo Taken: Southwest	
Description: Exit route starting to collapse			
Photo No. 24	Date: 08/05/2015	Direction Photo Taken: Southeast/Down	
Description: Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo.			

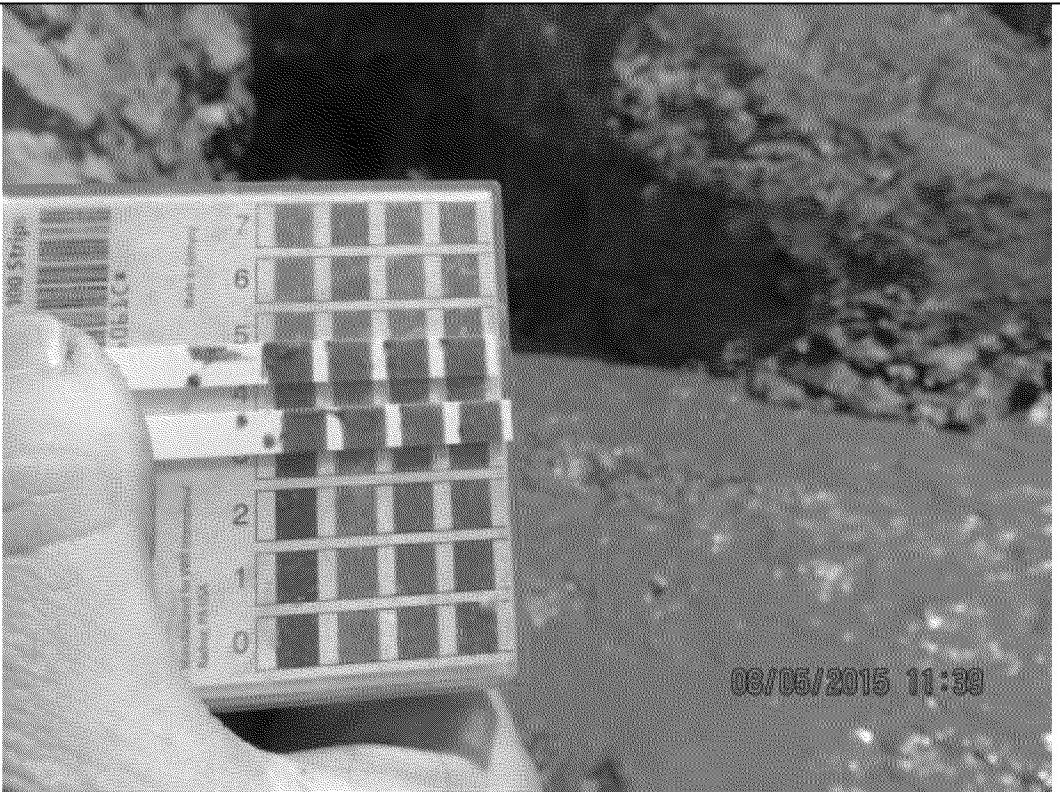


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Project Name: Gold King Mine		Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 25	Date: 08/05/2015	 08/05/2015 11:09	Direction Photo Taken: Northeast
Description: Gold King adit exposed.			
Photo No. 26	Date: 08/05/2015	 08/05/2015 11:11	Direction Photo Taken: Southeast
Description: Water flow washing out the existing road. Note Suburban in left side of photo.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 27	Date: 08/05/2015	Direction Photo Taken: North	 08/05/2015 11:39
Description: Exposed adit, roughly 10 feet wide by 15 feet high.			
Photo No. 28	Date: 08/05/2015	Direction Photo Taken: North	 08/05/2015 11:39
Description: pH of discharge water is approximately 4 to 4.5.			

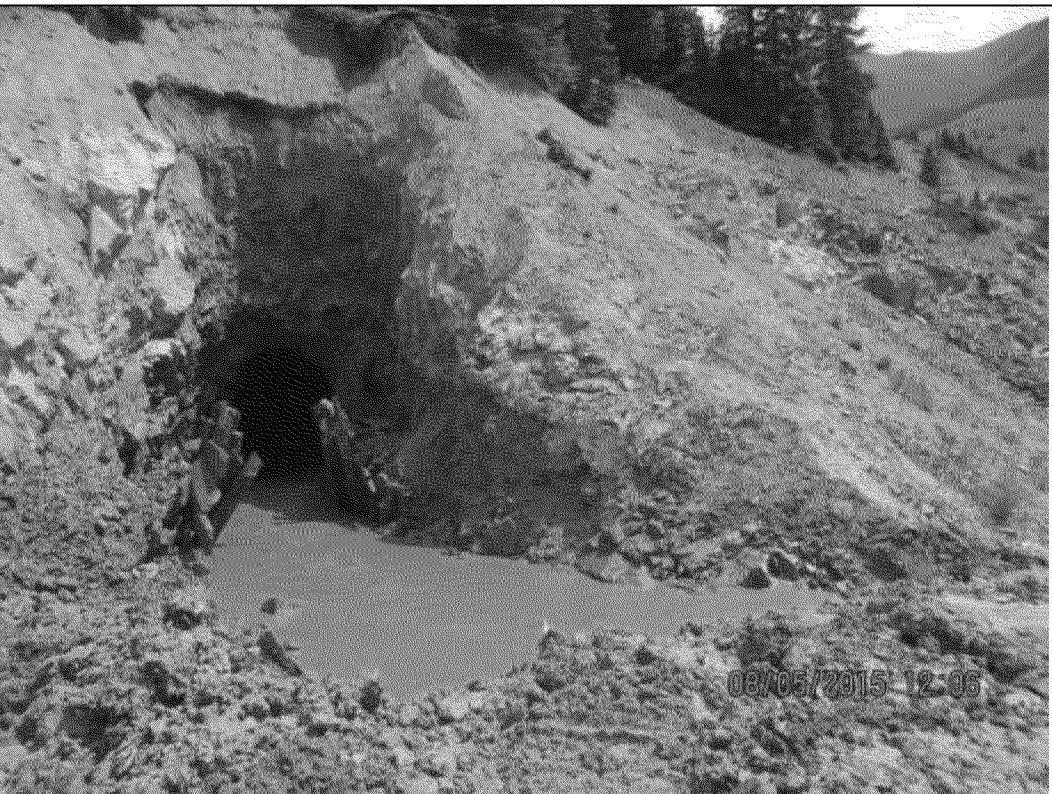


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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 29	Date: 08/05/2015	Direction Photo Taken: Northeast	 A black and white photograph showing a construction site in a mountainous area. A large excavator is positioned on a hillside, directing a stream of water into a half-pipe channel it has dug into the earth. A small white vehicle is visible further down the slope. The background shows dense forested mountains under a clear sky. A timestamp "08/05/2015 11:56" is overlaid in the bottom right corner of the photo.
Description: Excavator redirecting water into existing half-pipe channel.			
Photo No. 30	Date: 08/05/2015	Direction Photo Taken: Southeast/Down	 A black and white photograph showing a steep, eroded hillside. A large, collapsed section of what appears to be a waste dump or embankment has given way, causing a significant amount of material to slide down the slope. The ground is uneven and appears to be a mix of soil and debris. A timestamp "08/05/2015 11:55" is overlaid in the bottom right corner of the photo.
Description: Collapsed portion of waste dump and road wash out.			



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 31	Date: 08/05/2015 Direction Photo Taken: Northeast	
Description: Adit area after regrading.		
Photo No. 32	Date: 08/05/2015 Direction Photo Taken: North	
Description: Exposed adit and redirected flow, flow is beginning to subside.		



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 33	Date: 08/05/2015	 08/05/2015 12:06	Direction Photo Taken: East
Description: Redirected flow into existing half culvert channel.			
Photo No. 34	Date: 08/05/2015	 08/05/2015 12:06	Direction Photo Taken: North
Description: Closeup of adit.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 35	Date: 08/05/2015	Direction Photo Taken: West	 08/05/2015 12:14
Description: Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.			
Photo No. 36	Date: 08/05/2015	Direction Photo Taken: East	 08/05/2015 12:18
Description: Existing flow channel at maximum capacity.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 37	Date: 08/05/2015	Direction Photo Taken: Southwest/Down	 08/05/2015 12:32
Description: Excavator progress on fixing access road to create a safe exit route.			
Photo No. 38	Date: 08/05/2015	Direction Photo Taken: East	 08/05/2015 12:47
Description: Existing culvert flows subsiding minimally.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 39	Date: 08/05/2015	Direction Photo Taken: North	
Description: No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.			
Photo No. 40	Date: 08/05/2015	Direction Photo Taken: South/Down	
Description: Excavator progresses to washed out North Fork crossing.			



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Project Name:	Site Location:	Project No.
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Photo No. 41	Date: 08/05/2015	
Direction Photo Taken: Southwest/Down		
Description: Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle.		
Photo No. 42	Date: 08/05/2015	
Direction Photo Taken: Southwest/Down		
Description: Visitor leaving.		



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 43	Date: 08/05/2015	Direction Photo Taken: South/Down	
Description: Excavator continues to fix access road. Continued high flow is slowing progress.			
Photo No. 44	Date: 08/05/2015	Direction Photo Taken: East	
Description: Half culvert flow continues to subside.			



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 45	Date: 08/05/2015	Direction Photo Taken: North	
Description: Water levels lowering at adit entrance, no visible changes to structure.			
Photo No. 46	Date: 08/05/2015	Direction Photo Taken: West	
Description: Flight for life Helicopter coming up the valley to pick up a person who crashed a vehicle on Corkscrew Pass, not related to this event.			



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 47	Date: 08/05/2015	 08/05/2015 14:16
Direction Photo Taken: Southwest	Description: Close up of Flight for Life.	 08/05/2015 15:01



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Project Name:		Site Location:	Project No.
Gold King Mine		Silverton, San Juan County, Colorado	0001/1408-01
Photo No. 49	Date: 08/05/2015	Direction Photo Taken: North	
Description: pH measured at approximately 4.5.			
Photo No. 50	Date: 08/05/2015	Direction Photo Taken: Southwest/Down	
Description: DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.			



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 51 Direction Photo Taken: North	Date: 08/05/2015 Description: Looking up from the toe of the Gold King waste dump directly south of the adit.	
Photo No. 52 Direction Photo Taken: Northeast	Date: 08/05/2015 Description: Gold King Mine tailings dump after water discharge.	



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Project Name: Gold King Mine	Site Location: Silverton, San Juan County, Colorado	Project No. 0001/1408-01
Photo No. 53	Date: 08/05/2015	Direction Photo Taken: East
Description: Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine.		
Photo No. 54	Date: 08/05/2015	Direction Photo Taken: East
Description: Cement Creek crossing at Gladstone.		



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